

and a diol having a molecular weight of from about 60 to about 750; or
(b) a diol having a molecular weight of from about 1,000 to about 4,000
wherein, when the active hydrogen containing material does not include a molecular
weight of from about 60 to about 750, the prepolymer is dispersed in water which
includes a difunctional amine chain extender.

4. The polyurethane film according to Claim 3 wherein the diol having a molecular weight
of from about 1,000 to about 4,000 is a polyoxypropylene diol having an ethylene oxide capping
of from 0 to 25 percent.

The process according to Claim 9, wherein
the diisocyanate is either:

- (a) an aliphatic diisocyanate; or
(b) an aromatic diisocyanate selected from the group consisting of MDI, TDI, and
mixtures thereof; and
the active hydrogen containing material is either:

- (a) a mixture of a diol having a molecular weight of from about 1,000 to
about 4,000 and a diol having a molecular weight of from about 60 to
about 750; or
(b) a diol having a molecular weight of from about 1,000 to about 4,000
wherein, when the active hydrogen containing material does not include a diol
having a molecular weight of from about 60 to about 750, the prepolymer is
dispersed in water which includes a difunctional amine chain extender.

15. The dispersion of Claim 13, wherein the mixture of diols is a mixture of a diol having a
molecular weight of from about 1,000 to about 4,000 and a diol having a molecular weight of
from about 60 to about 750.